

Applicant : William Suttle Peters, et al.  
Appl. No. : 10/786,699  
Examiner : Scott M. Getzow  
Docket No. : 13634.4006

### Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (cancelled) A heart assist device adapted for implantation into a patient, the device including:

a) an aortic compression means is so shaped and dimensioned that it is adapted, when actuated, to compress the ascending aorta of a patient;

b) a fluid reservoir; and

c) an electrically powered pump means adapted to pump a fluid from the fluid reservoir to the aortic compression means so as to actuate the aortic compression means at least partly in counterpulsation with the patient's heart,

the fluid reservoir and pump means are so shaped, dimensioned and interconnected that they are adapted to be wholly positioned within the right chest cavity of the patient.

Claims 2-61 (Cancelled)

Claims 62-94 (Cancelled)

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95. (previously presented) An aortic compression means for use in a heart assist device, the aortic compression means including:

a) a flexible inflatable cuff adapted to be placed about the ascending aorta of a patient; and

b) a flexible, substantially inelastic, sheath adapted to extend around the cuff and at least assist in retaining it in position of the aorta,

wherein the aortic compression means is curved along its length so as to substantially replicate the curve of the ascending aorta adjacent to the aortic compression means.

96. (previously presented) An aortic compression means as claimed in claim 95, wherein the aortic compression means is substantially C-shaped along its length.

97. (previously presented) An aortic compression means for use in a heart assist device, the aortic compression means including:

a) an elastic inflatable cuff adapted to be placed about the ascending aorta of a patient; and

b) a flexible, substantially inelastic, sheath adapted to extend around the cuff and at least assist in retaining it in position on the aorta,

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wherein the aortic compression means is substantially C-shaped and includes two free ends, one of the free ends includes an elongated tongue adapted for suturing or otherwise connected in an overlapping relationship to the other end to retain the device adjacent the aorta.

98. (previously presented) An aortic compression means as claimed in claim 97, wherein the cuff includes said two free ends adapted for suturing together in an overlapping relationship.

99. (previously presented) An aortic compression means as claimed in claim 97, wherein the sheath includes said two free ends adapted for suturing together in an overlapping relationship.